## Index of Claims

| pplication/Control No. | Applicant(s)/Patent under<br>Reexamination |    |  |  |  |  |  |  |  |
|------------------------|--|----|--|--|--|--|--|--|--|
| 0/765,421              | SHAFFER ET A                               | L. |  |  |  |  |  |  |  |
| xaminer                | Art Unit                                   |    |  |  |  |  |  |  |  |
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|-------|----------|---------------|---|-----|----------|--------------|---------|--------------|--------------|----|---|----------|----------|----------|----------|----------|----------|------|----------|----------|-----|----------|-----|----------|------------|----------|---------------|----------|----------|----------|----------|-----------|----------|--------|
| Cla   | aim      | _             |   |     | _        | Dat          | ie      |              |              | _  | 1 | Cla      | aim      | -        |          |          | С        | Date | ,        |          |     | -        |     | Cli      | aim        | Г        |               |          |          | ate      | -        | _         | _        | 7      |
| Final | Original | 90/8/6        |   |     |          |              |         |              |              |    |   | Final    | Original |          |          |          |          |      |          |          |     |          |     | Final    | Original   |          |               |          |          |          |          |           |          |        |
| _     | 1        | V             |   | Т   | Н        | $\vdash$     | t       | t            | t            | t  | 1 |          | 51       |          |          | ヿ        | $\neg$   |      |          |          |     |          |     | $\vdash$ | 101        |          | П             | ┪        |          | $\neg$   |          | $\neg$    |          | $\neg$ |
| _     | 2        | 7             |   | Т   | Г        | Т            | Т       | Т            | Т            | Т  | 1 |          | 52       |          | П        | $\neg$   | $\neg$   |      | П        |          |     |          |     |          | 102        |          | П             | $\neg$   | П        | $\neg$   |          | $\neg$    | $\neg$   | П      |
|       | 3        | V             |   |     |          | $\Box$       | Г       |              |              |    | ] |          | 53       |          | П        |          | $\Box$   |      |          |          |     |          |     |          | 103        |          |               |          |          |          |          | $\exists$ |          |        |
|       | 4        | V             |   |     | Ш        | ┖            | ┖       | ┖            | L            |    | ] |          | 54       |          | Ш        | _        | _        |      |          |          |     |          |     |          | 104        |          | Ш             | _        |          |          |          | _         |          |        |
|       | 5        | V             |   |     | ╙        | ┺            | ┸       | ┺            | ┺            | ┺  | Į |          | 55       |          | Щ        | _        | _        |      |          |          |     |          |     |          | 105        | Ш        | ш             | _        |          | _        |          | _         |          |        |
|       | 6        | ٧             |   |     | ╙        | ╙            | ╄       | ╄            | ┺            | ╙  | Į |          | 56       |          | Ш        | _        | _        |      | Ш        |          |     |          |     | _        | 106        |          | $\perp$       | _        |          | _        |          | _         |          |        |
|       | 7        | ٧             |   | _   | ⊢        | +            | ╄       | +            | ╄            | ⊢  | Į | _        | 57       |          | Н        | _        | _        |      | Н        |          |     |          |     | _        | 107        | $\vdash$ | $\vdash$      | _        | Н        | -        | _        | -         | _        | _      |
|       | 8        | ¥             |   |     | ⊢        | ╀            | ╀       | ╀            | ╀            | ╄  | ł |          | 58       |          | Н        | _        | _        |      | ш        |          |     |          |     | _        | 108        |          | Н             | 4        |          | -        |          | -         |          | _      |
|       | 10       | =             | _ | _   | ⊢        | ╀            | ╀       | ╀            | ⊢            | ⊢  | ł | -        | 59<br>60 |          | Н        | $\dashv$ | $\dashv$ |      | Н        |          | Н   | Н        |     | _        | 109<br>110 | Н        | Н             | $\dashv$ | Н        | $\dashv$ | -        | $\dashv$  | -        | _      |
|       | 11       | -             | Н | -   | $\vdash$ | +            | +       | +            | +            | +  | ł | $\vdash$ | 61       | -        | Н        | $\dashv$ | $\dashv$ | _    | Н        | _        | Н   | Н        |     | $\vdash$ | 111        | Н        | Н             | $\dashv$ | $\vdash$ | $\dashv$ | -        | $\dashv$  | -        | _      |
|       | 12       | -             | - | H   | Н        | +            | ۰       | +            | +            | +  | ł | $\vdash$ | 62       | $\dashv$ | Н        | $\dashv$ | $\dashv$ | -    | Н        | -        | Н   | Н        |     | $\vdash$ | 112        | Н        | $\vdash$      | $\dashv$ | $\vdash$ | $\dashv$ | -        | $\dashv$  | $\dashv$ | -      |
|       | 13       | =             | - | Н   | Н        | +            | ۰       | +            | +            | +  | ł |          | 63       | -        | Н        | $\dashv$ | $\dashv$ | -    | Н        | -        | Н   | Н        |     | $\vdash$ | 113        | Н        | H             | $\dashv$ | Н        | -        | $\dashv$ | -         | $\dashv$ | -      |
|       | 14       | Ė             | Н | Н   | Н        | +            | t       | +            | +            | t  | 1 |          | 64       | -        | Н        | $\dashv$ | -        |      | Н        |          | Н   | Н        |     | $\vdash$ | 114        | Н        | Н             | -        | Н        | -        | -        | -         | $\dashv$ | _      |
| _     | 15       | V             |   |     |          | +            | +       | +            | +            | t  | ł | <b>—</b> | 65       |          | Н        | $\neg$   | $\dashv$ |      | Н        |          |     |          |     | -        | 115        |          | $\vdash$      | _        |          | $\dashv$ |          | $\dashv$  | $\dashv$ | _      |
|       | 16       | Ť             |   | _   | Н        | +            | +       | +            | +            | t  | 1 |          | 66       |          | Н        | $\neg$   | $\dashv$ |      | Н        |          |     |          |     |          | 116        |          | $\vdash$      | $\dashv$ |          | $\dashv$ |          | $\dashv$  | $\dashv$ | _      |
|       | 17       | $\vdash$      |   |     | Н        | $^{+}$       | $^{+}$  | t            | T            | t  | 1 |          | 67       |          | П        | $\neg$   | $\neg$   |      |          |          |     |          |     | -        | 117        |          | $\vdash$      | ┪        |          | $\neg$   |          | $\neg$    | $\neg$   | _      |
|       | 18       | $\vdash$      |   |     | Н        | $^{\dagger}$ | t       | t            | t            | t  | 1 |          | 68       |          |          | $\neg$   | $\neg$   |      |          |          |     |          |     | -        | 118        |          | $\vdash$      | $\neg$   |          | $\neg$   |          | $\neg$    |          | _      |
|       | 19       | $\overline{}$ |   |     |          | $^{-}$       | $^{+}$  | $^{+}$       | т            | т  | 1 |          | 69       |          | П        | $\neg$   | $\neg$   |      | П        |          |     |          |     |          | 119        |          |               | $\neg$   | $\neg$   | $\neg$   |          | $\neg$    | $\neg$   | _      |
|       | 20       | V             | П |     | -        | $^{-}$       | $^{+}$  | $^{+}$       | $^{-}$       | Т  | 1 |          | 70       |          | П        | $\neg$   | $\neg$   |      | П        |          |     |          |     |          | 120        |          | $\neg$        | $\neg$   | П        | $\neg$   |          | $\neg$    | $\neg$   | _      |
|       | 21       | V             |   | Т   | Н        | т            | т       | T            | т            | T  | 1 |          | 71       |          | П        | $\neg$   | $\neg$   |      | П        |          |     |          |     |          | 121        |          | $\Box$        | ╛        | П        | $\neg$   |          | $\neg$    | $\neg$   | _      |
|       | 22       | V             | П |     | Т        | т            | т       | Т            | т            | Т  | 1 |          | 72       |          | П        | ╛        | ╗        |      | П        |          | П   |          |     |          | 122        |          | $\Box$        | $\neg$   | П        | $\neg$   |          | $\neg$    | ┪        | _      |
|       | 23       | V             |   |     | Г        | Т            | T       | T            | Т            | T  | 1 |          | 73       |          | П        | $\neg$   | コ        |      |          |          |     |          |     |          | 123        |          | П             | ╗        | П        | ╛        |          | ╛         | 寸        | _      |
|       | 24       | V             |   |     | П        | Т            | Т       | Т            | Т            | Г  | 1 |          | 74       |          | П        |          | П        |      | П        |          |     |          |     |          | 124        |          |               | ╗        | П        | П        |          | П         | П        | _      |
|       | 25       | V             |   |     |          |              |         |              |              |    | ] |          | 75       |          |          |          |          |      |          |          |     |          |     |          | 125        |          |               |          |          |          |          |           | П        | Ξ      |
|       | 26       | =             |   |     |          |              |         |              |              |    | ] |          | 76       |          |          |          |          |      |          |          |     |          |     |          | 126        |          |               |          |          |          |          |           |          |        |
|       | 27       | =             |   |     |          |              |         |              |              |    | ] |          | 77       |          |          |          |          |      |          |          |     |          |     |          | 127        |          |               |          |          |          |          |           |          | Ξ      |
|       | 28       | =             |   |     |          |              |         |              |              |    | ] |          | 78       |          |          |          |          |      |          |          |     |          |     |          | 128        |          |               |          |          |          |          |           |          |        |
|       | 29       | =             |   |     |          |              | $\perp$ |              |              |    | ] |          | 79       |          |          | $\Box$   |          |      |          |          |     |          |     |          | 129        |          |               | $\Box$   |          | $\Box$   |          |           |          |        |
|       | 30       | =             |   |     | L        | _            | ┸       | ┸            | _            | ┖  | Į |          | 80       |          | Ш        | _        | _        |      |          |          |     |          |     |          | 130        |          | Ц             | _        |          | _        |          | _         |          |        |
|       | 31       | ٧             |   | _   | ╙        | _            | ┸       | 1            | ┺            | ╙  | Į |          | 81       |          | Ц        | _        | _        |      | Ш        |          |     |          |     |          | 131        | Ш        | ш             | _        | Ш        | _        |          | _         |          | _      |
|       | 32       | _             | ш | _   | ╙        | ╄            | ╀       | ╄            | ╄            | ╄  | Į |          | 82       | _        | Н        | _        | _        | _    | ш        |          |     |          |     | <u> </u> | 132        | Ш        | $\perp$       | 4        |          | 4        | _        | 4         | _        | _      |
| _     | 33       | ⊢             | _ | _   | ⊢        | ╄            | ╀       | ╄            | ╄            | ⊢  | 1 | _        | 83       | _        | _        | -        | 4        | _    | Н        | _        |     |          |     | <u> </u> | 133        | Н        | $\rightarrow$ | -        | Н        | -        | _        | -         | _        | _      |
| _     | 34       | ⊢             | _ | _   | ⊢        | ╄            | ╄       | +            | ╄            | -  | ł | _        | 84       | _        | $\vdash$ | -        | -        | _    | Н        | _        |     | -        |     | _        | 134        | $\vdash$ | $\rightarrow$ | _        | Н        | -        | _        | -         | _        | _      |
| _     | 35       | $\vdash$      |   | -   | ⊢        | +            | +       | +            | +            | +  | ł | -        | 85       | -        | $\vdash$ | -        | -        | -    | Н        | -        | Н   | $\vdash$ |     | $\vdash$ | 135<br>136 | $\vdash$ | $\vdash$      | -        | $\vdash$ | -        | -        | $\dashv$  | -        | _      |
| _     | 36       | $\vdash$      | _ | -   | $\vdash$ | ┰            | +       | +            | +            | +  | ł | $\vdash$ | 86<br>87 | _        | Н        | $\dashv$ | -        | _    | Н        | _        | Н   | Н        |     | $\vdash$ | 136        | $\vdash$ | Н             | $\dashv$ | $\vdash$ | -        | -        | $\dashv$  | -        | _      |
| _     | 38       | $\vdash$      | Н | H   | $\vdash$ | +            | ٠       | +            | +            | +  | ł | $\vdash$ | 88       | _        | Н        | $\dashv$ | $\dashv$ | _    | Н        | -        | Н   | Н        |     | $\vdash$ | 138        | $\vdash$ | Н             | $\dashv$ | $\vdash$ | $\dashv$ | -        | $\dashv$  | -        | _      |
| _     | 39       | ⊢             | - | -   | ┝        | ╁            | ٠       | +            | ╁            | ╁╌ | ł | -        | 89       | -        | Н        | $\dashv$ | -        | -    | Н        | -        | Н   | Н        |     | $\vdash$ | 139        | Н        | $\vdash$      | $\dashv$ | $\vdash$ | -        | -        | -         | $\dashv$ | -      |
|       | 40       | $\vdash$      | - | H   | Н        | +            | ٠       | +            | +            | ╁  | ł | -        | 90       | -        | Н        | $\dashv$ | $\dashv$ | _    | Н        | _        | Н   | Н        |     | $\vdash$ | 140        | Н        | Н             | $\dashv$ | Н        | $\dashv$ | -        | $\dashv$  | $\dashv$ | -      |
| _     | 41       | -             | - | -   | ⊢        | +-           | +       | ╁            | +-           | +- | ł | $\vdash$ | 91       | -        | $\vdash$ | -1       | -1       | -    | $\vdash$ | $\dashv$ | Н   | Н        |     | $\vdash$ | 141        | Н        | $\vdash$      | $\dashv$ | $\dashv$ | -        | -        | -         | $\dashv$ | -      |
| _     | 42       | +-            | Н | H   | +        | +-           | 1-      | 1-           | +-           | +- | 1 | $\vdash$ | 92       | -        | H        | -1       | -        | -    | Н        | -        | Н   | Н        |     | $\vdash$ | 142        | Н        | $\vdash$      | -        | $\vdash$ | -        | -        | -         | $\dashv$ | -      |
|       | 43       | $\vdash$      | Н | Н   | Н        | +            | t       | t            | t            | t  | 1 |          | 93       | $\dashv$ | H        | -        | -        | -    | Н        | -        | Н   | Н        |     |          | 143        | Н        | H             | -        | Н        | -        | -        | -         | $\dashv$ | _      |
|       | 44       | $\vdash$      | Н | Н   | Н        | +            | t       | t            | t            | t  | 1 |          | 94       |          | Н        | $\dashv$ | $\dashv$ |      | Н        |          | Н   | Н        |     | $\vdash$ | 144        | Н        | H             | 7        | Н        | $\dashv$ | _        | $\dashv$  | $\dashv$ | _      |
| _     | 45       | -             |   |     | Н        | +            | t       | +            | +            | t  | 1 |          | 95       | _        | Н        | $\dashv$ | $\dashv$ |      | Н        |          | Н   | Н        |     | $\vdash$ | 145        | Н        | Н             | 7        | Н        | $\dashv$ | _        | $\dashv$  | $\dashv$ | _      |
| _     | 46       | $\vdash$      | Н | Н   | Н        | $^{+}$       | t       | $^{+}$       | $^{+}$       | t  | 1 |          | 96       | $\neg$   | $\vdash$ | $\dashv$ | $\dashv$ |      | Н        | $\neg$   | Н   | Н        |     |          | 146        | Н        | $\vdash$      | ╛        | $\vdash$ | $\dashv$ | _        | $\dashv$  | $\dashv$ | _      |
|       | 47       |               |   |     | $\vdash$ | $^{\dagger}$ | t       | $^{\dagger}$ | $^{\dagger}$ |    | 1 |          | 97       |          | $\vdash$ | $\neg$   | $\dashv$ |      | Н        |          |     | Н        |     |          | 147        | Н        | $\vdash$      | 7        | $\vdash$ | -        |          | $\dashv$  | $\dashv$ | _      |
|       | 48       | -             |   |     | Н        | 1            | t       | t            | t            | t  | 1 |          | 98       |          | Н        | $\neg$   | $\dashv$ |      | Н        |          |     | Н        |     |          | 148        | П        | Н             | ┪        |          | _        | _        | $\dashv$  | _        | _      |
|       | 49       |               |   | Т   | Т        | $\top$       | t       | T            | T            | T  | 1 |          | 99       |          | $\Box$   | $\neg$   | $\neg$   |      |          |          |     |          |     |          | 149        | П        | $\Box$        | ╛        |          | $\dashv$ |          | $\neg$    | $\dashv$ | _      |
| _     | 50       |               |   | Т   | Т        | Т            | t       | t            | Т            | T  | 1 |          | 100      |          | $\Box$   | $\neg$   | $\dashv$ |      | П        |          |     |          |     |          | 150        | П        | $\Box$        | 7        | $\Box$   | $\dashv$ | _        | $\dashv$  | $\dashv$ | _      |